

ZENKIN, N.I., inzh.; KIRPICHNIKOV, V.M., kand. tekhn. nauk

Generating transient electromagnetic moments of asynchronous  
motors. Izv. vys. ucheb. zav.; gor. zhur. 7 nn. 3:171-178  
'64. (MIRA 17:8)

1. Ural'skiy politekhnicheskiy institut imeni Kirova. Re-  
komendovana kafedroy vychislitel'noy tekhniki.

KIRPICHNIKOV, V.M., detainee; SHUBENKO, V.A., prof.

Circular diagram and parameters of the equivalent circuit of a capacitor micrometer. Izv.vys.ucheb.zav.ygor.zhur. 7 no.6-1983-23 104 (MIRA 1984).

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova. Rekomendovana kafedroy elektroprivoda i avtomatizatsii promyshlennyykh ustroystv.

SHIMANSKIY, Yu.N., inzh.; VASANOVA, L.K., inzh.; KIRPICHNIKOV, V.M.,  
kand. tekhn. nauk; SYROMYATNIKOV, N.I., doktor tekhn. nauk

Measurement of temperature in unsteady thermal processes.  
Teploenergetika 11 no.3:93-94 Mr '64. (MIRA 17:6)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova.

ANISHCHENKO, Yevgeniy Ivanovich, assistant; KIRPICHNIKOV, Viktor Mikhaylovich, kand. tekhn. nauk, dotsent; SIUNOV, Nikolay Sergeyevich, doktor tekhn. nauk, prof.

Use of an electric integrator in calculating stray fields of the rotor of a synchronous machine. Izv. vys. ucheb. zav.; elektromekh. 7 no.7:837-847 '64.

(MIRA 18:5)

1. Kafedra elektricheskikh mashin Ural'skogo politekhnicheskogo instituta (for Anishchenko). 2. Zaveduyushchiy kafedroy vychislitel'noy tekhniki Ural'skogo politekhnicheskogo instituta (for Kirpichnikov). 3. Zaveduyushchiy kafedroy vychislitel'noy tekhniki Ural'skogo politekhnicheskogo instituta (for Siunov).

KIRPICHNIKOV, V.M.; ZENKIN, N.I.; TOMASHEVSKIY, N.I.

Study of the dynamics of the start of squirrel-cage induction  
motors using analog computers. Trudy Ural. politekh. inst.  
no. 138:162-V/2. '64 (MIRA 19:1)

ZENKIN, N.I., inzh.; KIRPICHNIKOV, V.M., kand.tekhn.nauk; TOMASHEVSKIY, N.I., inzh.; SHUBENKO, V.A., doktor tekhn.nauk; YASENEV, N.D., inzh.

Calculating dynamic and static characteristics of asynchronous motors with the help of analog computers. Izv.vys.ucheb.zav.; gor.shur. 8 no.11,149-157 '65.

(MIRA 19:1)

1. Ural'skiy politekhnicheskiy institut imeni Kirova. Rekomendovana kafedroy vychislitel'noy tekhniki. Submitted October 3, 1964.

L 20414-66 EWT(d)/SWP(1) IJP(e) BB/QG

ACC NR: AP6009909

SOURCE CODE: UR/0413/66/000/004/0106/0106

INVENTOR: Gorshkov, A. F.; Kirpichnikov, V. M.; Siumov, M. N.

ORG: none

TITLE: Buffer memory circuit. Class 42, No. 179095

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 106

TOPIC TAGS: computer component, buffer memory, storage device, magnetic core storage, computer memory

ABSTRACT: The Author Certificate introduces a ferrite-core buffer memory utilising

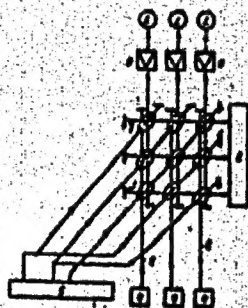


Fig. 1. Buffer memory circuit

1 - Horizontal recording buses;  
2 - generators for selection of horizontal buses; 3 - vertical write buses; 4 - generators for selection of vertical buses;  
5 - generators for diagonal read buses; 6 - amplifiers; 7 - recording units.

Card 1/2

UDC: 681.142.523.8.07

L 20414-66

ACC NR: AP6009909

square matrices. Matrix configuration is shown in Fig. 1. Orig. art. has:  
1 figure.

[DW]

SUB CODE: 09/ SUBM DATE: 22Jun64/ ATD PRESS: 4222

Card

2/2

BK



L 00809-67 BFI(d)/ENP(1) IJP(a) BB/00

ACC NR: AP6015577

(N)

SOURCE CODE: UR/0146/66/009/002/0074/0078

AUTHOR: Kirpichnikov, V. M.; Gershkov, A. F.; Siunov, M. N.

ORG: Ural Polytechnic Institute im. S. M. Kirov (Ural'skiy politekhnicheskii institut)

TITLE: Model of high-speed recorder unit using flash lamps

SOURCE: IVUZ. Priborostroyeniye, v. 9, no. 2, 1966, 74-78

TOPIC TAGS: computer, digital computer, computer component

ABSTRACT: An experimental recorder unit<sup>16</sup> intended for receiving alphanumerical information from digital computer is described; the information can be recorded on a photo film or a xerox paper. A step register logically converts information and makes up the lines on the film which enhances the speed of operation. A principal circuit of the recorder unit is briefly explained. IFK-120 flash lamps operating with a very low duty factor help in transmitting characters to the photo film; writing density, 2000 lines per m. The writing rate of the new experimental unit is claimed to exceed that of the regular "Ural-2" computer by 11 times; it can be varied within 1--13200 lines per min. Orig. art. has: 2 figures and 5 formulas.

SUB CODE: 09 / SUBM DATE: 23Feb65 / ORIG REF: 004

Card 1/1

vlr

UDC: 681.142.5

1. EMP(6-67) EMP(R)/EMP(A)/EMP(h)/EMP(1)/EMP(v)  
ACC NNT A00019230 (N)

SOURCE CODE: UR/0144/66/000/002/0160/0164

AUTHOR: Anichchenko, Ye. I.; Kirpichnikov, V. M.; Siunov, N. S.

ORG: None

TITLE: Criteria for adhesion in synchronous motors

SOURCE: IVUZ. Elektromekhanika, no. 2, 1966, 160-164

TOPIC TAGS: ~~electric motor~~, electric motor, harmonic analysis, reliability engineering,  
MECHANICAL FAILURE, ENGINE STARTER SYSTEM

ABSTRACT: Adhesion in synchronous motors occurs where  $L_{\min} \approx t_1$  ( $\gamma_{\text{eff}} \approx 1$ ). In this case the tooth harmonics, which are the cause of adhesion, are largest. The larger  $\gamma$  the smaller the effect of the starting winding slots and the less the tendency of the motor to adhesion. Two conditions are recommended for eliminating adhesion,

$$t_2 > 0.8t_1 \quad (1)$$

$$\Lambda = \left| (n_r - 1) \left( 1 - \frac{t_2}{t_1} \right) \right| > 0.75, \quad (2)$$

where  $t_1$  and  $t_2$  are the stator and rotor tooth divisions. The following should be

Card 1/2

UDC: 621.313.332.+621.3.044.

L 09246-67

ACC NR: AP6019230

true for reliable starting of synchronous motors:  $\gamma_{\text{eff}} > 1.5$  or  $\gamma_{\text{av}} > 1.8$ . Orig.  
art. has: 4 formulas, 2 figures and 1 table.

SUB CODE: 09/SUBM DATE: 19 Feb 64/ORIG REF: 004

<sup>14</sup>  
Machine Design

Card 2/2

SHUBENKO, V.A.; KIRPICHNIKOV, V.M.

General method for mathematical study of a.c. servo-drive  
amplifiers. Trudy Ural. politekh. inst. no.124:70-80 '62.  
(MIRA 16:8)

KIRPICHNIKOV, V. S.

"Materials on Genetics and Selection of the Corp. II.

1. The fundamental series of genes of the scales and the problem of Pleiotropism of genes of the corp.
2. Hybrids of the cultivated and the wild corp." (p. 327) by Kirpichnikov, V. S.; and Balkashina, E. I.

SO: Biological Journal (Biologicheskii Zhurnal) Vol. V, 1936, No. 2

KIRPICHNIKOV, V. S.

"The Significance of Adaptive Modifications for the Process of Evolution." (p. 121)  
by Kirpichnikov, V. S.

SO: Journal of General Biology, (Zhurnal Obshchey Biologii), 1940, Vol. I, No. 1

KIRPICHNIKOV, V. S.

V. S. Kirpichnikov: "The adjustive nature of intraspecies mutability." (p. 172)

SO: Journal of General Biology Vol. 5, No. 3, 1944

KIRICHENKO, V. S.

"On Hypothesis of Fixation of Modifications of Heredity" (page 314) by Kirichenko, V. S.  
(Morozov-Vorobeyev-Ussurinsky)

CC: Advances in Modern Biology (Uspekhi Sovremennoi Biologii), Vol. 17, 1944, No. 3



KIRPICHNIKOV, V.S., MFG, P.L.

Carp

"Problem of increasing the resistance to cold of young carp, carp and their hybrids." Zool. zhur. 31, No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952, UNCLASSIFIED.

1. BRIZINOVA, P. N.: KIRPICHNIKOV, V. S.
2. USSR (600)
4. Carp
7. Improvement of the resistance to cold by carp fry, Amur carp, and their hybrids.  
Report 2. Metabolism, fatness, and nourishment of hybrids and carp. Zool. zhur.  
31 no. 6, 1952.
9. Monthly List of Russian Accessions, Library of Congress, March 1953. Unclassified.

KIRPICHNIKOV, V.S., kandidat biologicheskikh nauk.

Problem of wintering carp. Trudy sov. ikht. kom. no. 2:25-35 '53.  
(MLRA 7:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ozer'nogo i rechnogo rybnogo khozyaystva - VNIORKh.  
(Carp)

KIRPICHNIKOV, V.S.

Ivan Nikolaevich Arnol'd; on the tenth anniversary of his  
death. Trudy sov. Ikht.kom. no.2:121-124 '53. (MLBA 7:7)  
(Arnol'd, Ivan Nikolaevich, 1868-1942)

*KIRPICHNIKOV, V.S.*

KIRPICHNIKOV, V.S.; LEBEDEV, L.I.

Problem of increasing the cold hardiness of young-of-the-year carp,  
the Amur carp, and their hybrids; report 3. Trudy Gidrobiol.ob-va  
5:318-338 '53. (MLRA 7:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ozerogo i rechnogo  
rybnogo khozyaystva. (Carp) (Cold--Physiological effect)

KIRPICHNIKOV, V.S.

Resistance to salt of Aral carp. Vop. ikht. no. 2:41-45 '54.  
(MIRA 8:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ozernogo i  
rechnogo rybnogo khozyaystva VNIORKh.  
(Aral Sea--Carp)

KIRPICHNIKOV, V.S., kandidat biologicheskikh nauk.

Movement of wild and domestic carp to the north. Trudy sov. ikht.  
kom. no.3:121-129 '54. (MIRA 7:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ozer'nogo i  
rechnogo rybnogo khozyaystva - VNIORKh.  
(Acclimatization) (Fishes)

KIRPICHNIKOV, V.S. (*Review*)

"Pond fish culture." F.M.Sakhoverkhov. Reviewed by V.S.Kirpichnikov.  
Zool.shur. 33 no.2:494-496 Mr-Apr '54. (MLA 7:5)  
(Sakhoverkhov, Filipp Mikhailovich) (Fish culture)



KIRPICHNIKOV, V.S.

KIRPICHNIKOV, V.S.; BAUER, O.S.

"Transactions of the Scientific Research Institute of the Pond, Lake,  
and River Fishing Industry of the Ukraine S.S.R." No.9, 1953.

Reviewed by V.S.Kirpichnikov; O.S.Bauer. Zool.shur.34 no.1:237-239  
Ja-F '55. (MIRA 8:3)

(Ukraine--Fish culture)

KIRPICHNIKOV, V.S.

"Increasing fish fertility in ponds." V.M. Il'in. Reviewed by  
V.S. Kirpichnikov. Zool. zhur. 35 no. 5: 788-790 My '56. (MLRA 9:9)  
(Fish culture)

USSR / General Biology - General Hydrobiology.

B

Abs Jour: Ref Zhur-Biol., No 9, 1958, 38107.

Author : Burmakin, E. V., Kirpichinkov, V. S.

Inst : Not given.

Title : Staroladozhsk Canal Ponds.

Orig Pub: Nauchno-tekhn. byul. Vses. n.-i. in-ta oz. i  
rechn. rybn. kh-va, 1957, No 5, 56-60.

Abstract: Results of piscicultural studies of the canal's storage reservoirs with a total area of 1000 hectares. It is expedient to utilize these for piscicultural purposes (cultivation of marketable carp with an admixture of whitefish). Data are given on the chemical composition of water, quantity of zooplankton and bathos biomass in the reservoirs.

Card 1/1

KIRPICHNIKOV, V.S., kand.biol.nauk

Cold resistance and winter hardiness of young domestic and wild carp  
and their hybrids. Trudy sov.Ikht.kom. no.8:261-270 ' 58.

(MIRA 11:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ozernogo i rechnogo  
rybnogo khozyaystva.

(Carp) (Cold--Physiological effect)

KIRPICHNIKOV, V.S., kand.biol.nauk; SVETOVIDOV, A.N.; TROSHIN, A.S., doktor  
biol.nauk

Tagging fish with radioactive isotopes of phosphorus and calcium.  
Trudy sov.Ikht.kom. no.8:307-321 ' 58. (MIRA 11:11)

1. Chlen-korrespondent AN SSSR (for Svetovidov). 2. Zoologicheskiy  
institut AN SSSR i Vsesoyuznyy nauchno-issledovatel'skiy institut  
ozernogo i rechnogo rybnogo khozyaystva.  
(Fish tagging) (Phosphours--Isotopes) (Calcium--Isotopes)

AUTHOR: Kirpichnikov, V.S. 807/26-58-12-24/44

TITLE: The Culture of the Carp in Japan (Vyrashchivaniye karpa v Yaponii)

PERIODICAL: Priroda, 1958, Nr 12, pp 107 - 108 (USSR)

ABSTRACT: Referring to a Japanese source, the author describes the method of carp culture in special ponds in Japan, especially that of Tanaka near Tokyo. He concludes that considering the food value and little space required for carp culture the utilization of this method would be desirable in the USSR. But limitations to the materialization of such a project are set by the requirements of maintenance of a constant temperature between 20 and 30°C, sufficient amounts of suitable nutrition, not to mention initial cost and scientifically-based experience. There is 1 diagram and 1 Japanese reference.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut ozernogo i rechnogo rybnogo khozyaystva /Leningrad (The All-Union Scientific Research Institute of the Lake and River Fish Economy /Leningrad)

Card 1/1

AUTHOR: Kirpichnikov, V. S. SOV/20-121-4-46/54

TITLE: Genetic Methods for Individual Selection in the Breeding of Carps (Geneticheskiye metody individual'nogo vybora v karpovodstve)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol. 121, Nr 4, pp. 742-745 (USSR)

ABSTRACT: The breeding of a northern carp hybrid race has been determined since 1949 by the selection of hybrids of the culture carp and the frost resistant Amur-Sazan (amurskiy Sazan); (Refs 1, 2). It proved necessary to estimate the properties of the generators with respect to the quality of their progeny. Due to methodical difficulties the endeavours of the fish breeders Kuzema and Poliksenov did not show any clear results. The author faced 2 tasks: 1) To find out and to eliminate those generators which are heterozygotic with respect to the hereditary factor. 2) The selection of generators for a progeny with a best genotypically conditioned rapidity of growth and viability. To solve the first problem analyzing mass cross breeding was carried out in the following way in Ropsha (area of Leningrad): Females of mirror carps with dispersed scales (ss) x males of

Card 1/3

SOV/20-121-4-46/54

## Genetic Methods for Individual Selection in the Breeding of Carps

scaled hybrids of the third generation (SS or Ss). To begin with 1-2 acetoned Sazan hypophyses were introduced into all males. After 14-20 hours the sperm was put into numbered reagent glasses; then the fishes were marked. When the spawn of the females which had been inoculated with hypophysis became mature a part of it was mixed with the sperm of a certain male. Until they developed scales the hatched larvae were bred in aquaria. 2 groups of hybrids of the third generation were investigated: a) Intermediate line hybrids and b) back-bred hybrids - as result of a back-breeding hybridization of the hybrids. Second generation with the Amur-Sazan. As expected the number of the homozygotic males in the group a) amounted to about 40% whereas it was 90% in group b) (Table 1). The variability proved to be somewhat higher than expected; this fact is probably due to an accidental selection. The investigations will be continued. The second problem was solved by comparing growth and viability of young fishes with parents of unequal weight. The inherited rapidity of growth is not high in the case of hybrids. There is undoubtedly a correlation

Card 2/3



SOV/20-121-4-46/54

Genetic Methods for Individual Selection in the Breeding of Carps

between the rapidity of growth of parents and larvae; this correlation is, however, not close since inheritance of this important feature of selection is not considerable. Only the biggest fishes should be used for propagation. There are 1 figure, 2 tables, and 9 references, 6 of which are Soviet.

**ASSOCIATION:** Vsesoyuznyy nauchno-issledovatel'skiy institut ozernogo i rechnogo rybnogo khozyaystva, Leningrad (Leningrad, All-Union Scientific Research Institute of Lake and River Fishery)

**PRESENTED:** April 18, 1958, by I. I. Shmal'gauzen, Member, Academy of Sciences, USSR

**SUBMITTED:** April 17, 1958

Card 3/3

AUTHOR: Kirpichnikov, V. S. SOV/20-122-4-50/57

TITLE: On the Degree of the Heterogeneity of the Populations of Wild Carp and the Hybrids of Wild Carp and Domesticated Carp (Stepen' geterogenosti populyatsiy sazana i gibridov sazana s karpom)

PERIODICAL: Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 4, pp 716-719 (USSR)

ABSTRACT: A stable variability of many morphological significant features which are diagnostically important is characteristic of the vast majority of fish species. Above all the so-called meristic (theoretic) characteristic features as well as the number of rays in the fins, of the scales along the lateral line, the number of vertebrae, etc. belong to these characteristic features. The variation with respect to each one of these characteristic features is usually subject to the law of normal distribution (zakon normal'nogo raspredeleniya). Such a variability is characteristic, above all, of the wild carp (Ref 1). In the case of Zoarces viviparus and Coregonus the meristic variation turned out to be, to a great extent,

Card 1/4

On the Degree of the Heterogeneity of the Populations SOV/20-122-4-50/57  
of Wild Carp and the Hybrids of Wild Carp and Domesticated Carp

hereditary and polygenic according to its nature (Refs 2-4). At the same time, almost the investigated characteristics depend on the environmental conditions, especially on the water temperature during the fetal development (Refs 2-5). Thus the normal variation of the meristic characteristics is based upon the genotypic as well as upon the paratypic variability. This is the very case with the wild carp investigated by the author. The problem of the origin and the maintenance of such a natural variability is not solved. The author gives some data concerning the variability and heredity of one of the most important systematic characteristics of the wild carp - the number of the soft rays in the dorsal fin - as an example. This data was obtained during the creation of a northern hybrid race. This work is carried out by means of selection of the hybrids between the domesticated carp and its near relative - the wild carp of the Amur river (amurskiy sazan). On the strength of its results the author draws the conclusion that the Amur-Sazan (as well as probably many other fish species) is an example of a species with natural increased heterogeneity. The author believes the latter to be adaptively important.

Card 2/4

On the Degree of the Heterogeneity of the Populations SOV/20-122-4-50/57  
of Wild Carp and the Hybrids of Wild Carp and Domesticated Carp

The high fertility of Sazan and a high number of chromosomes ( $2n = 104$ ) guarantees the formation of very different genetic combinations on the strength of a chance combination of the polymeric factors. The heterogeneity of the population is automatically maintained by selection. Well balanced heterozygotic genetic systems are bound to be formed in the course of long periods. The stability (homoeostase), the evolutionary importance of which becomes more and more clear in the recent time (Refs 7, 8), is their characteristic feature. The great migrations of the Sazan and a partial mixing up of the populations during the breeding period prevent a complete isolation of the local species and the development of local races. The importance of the increased evolutionary plasticity, or the heterogeneity, will facilitate a quick adaptation to the new conditions by selection, if the Sazan will settle in new isolated waters, or in the case of a considerable change of the environmental conditions. There are 1 figure, 4 tables, and 9 references, 1 of which is Soviet.

Card 3/4

On the Degree of the Heterogeneity of the Populations SOV/20-122-4-50/57  
of Wild Carp and the Hybrids of Wild Carp and Domesticated Carp

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut ozernogo i  
reohnogo rybnogo khozyaystva  
(All-Union Scientific Research Institute of Lake- and River  
Fishery)

PRESENTED: May 24, 1958, by I. I. Shmal'gauzen, Member, Academy of  
Sciences, USSR

SUBMITTED: May 23, 1958

Card 4/4

KIRPICHNIKOV, V.S.

Genetic methods of selection in fish breeding. Biol. MOIP. Otd. biol.  
64 no.1:119-137 Ja-F '59. (MIRA 12:7)  
(Fish culture)

KIRPICHNIKOV, V.S.; MOSEVICH, N.A.; PROTASOVA, V.I.; BAUYER, O.N.

Optimum conditions in wintering ponds for the young-of-the-  
year common carp, the Amur carp, and their hybrids. Trudy  
Gidrobiol. ob-va 10:52-85 '60. (MIRA 13:9)  
(Novgorod Province--Fish ponds) (Carp)

*a* L 10319-66

ACC NR: AP5021827

SOURCE CODE: UR/0356/65/000/008/0039/0046

AUTHORS: Kirpichnikov, Ye. (Engineer); Zabava, V. (Correspondent of the journal)

ORG: Leningrad Regional Combine "Lenvodstroy" (Leningradskiy oblastnoy trest "Lenvodstroy")  
19  
18  
B

TITLE: News in land reclamation technology

SOURCE: Tekhnika v sel'skom khozyaystve, no. 8, 1965, 39-46

TOPIC TAGS: land reclamation, construction machinery, drainage system, agriculture/ E 352 excavator, EM 1100 digger, D 20B grader, DM 1.8 turf cutter

ABSTRACT: Advances in land reclamation technology are discussed. Since the formation of "Lenvodstroy" six years ago, the number of land reclamation stations has grown from 7 to 17. Each station has operational divisions with annual budgets of 250-300 000 rubles. Monthly premiums are paid to workers, technicians, and administrators for exceeding quotas of reclaimed land. The stations have added 8260 hectares of reclaimed land to this region in the past year (almost twice the 1962 figure) with 13 200 hectares anticipated for the present year. Land

Card 1/2

UDC: 631.6:626.86

SUB CODE: 13/

SUBM DATE: none

Card 2/2

02



KRETOV, V.P., inzh.; KIRPICHNIKOV, Yu.A., inzh.

Automatic lighting control. Prom. energ. 19 no.11:22-23 N 164.  
(MIR: 18:1)

STEPANENKO, Yu.; KIRPICHNIKOVA, I.; MALINICHEV, G.

Yesterday a dream, today a reality. Zhon.-sila 37 no.5:31 My '62.  
(MIRA 15:9)

(Technological innovations)

KIRPICHNIKOVA, K. (g. Podol'sk)

Industrial health center. Okhr.truda i sots.strakh. no.6:38-40  
D '58. (MIRA 12:1)

1. Zavednyushchaya zdavpункtom.  
(Moscow Province--Medicine, Industrial)

KIRPICHNIKOVA, N.

Conference of aviators. Zashch. rast. ot vred. i bol. 10 no. 4:54-55  
'65. (MIRA 18:6)

BAZHENOV, N.M. [deceased]; KOL'TSOV, A.I.; KIRPICHNIKOVA, N.P.; RYSKIN, Ya.I.;  
STAVITSKAYA, G.P.; BOYKOVA, A.I.; TOROPOV, N.A.

Infrared absorption spectra, proton magnetic resonance, and  
structure of dicalcium silicates  $\alpha$ - and  $\beta$ -hydrates. Izv. AN  
SSSR. Ser.khim. no.3:409-416 Mr '64. (MIRA 17:4)

1. Institut khimii silikatov im. I.V.Gregenshchikova AN SSSR i  
Institut vysokomolekulyarnykh soyedineniy AN SSSR.

KIRPICHNIKOVA, N.S.

VETCHINKIN, VLADIMIR PETROVICH, and N.S. KIRPICHNIKOVA

O vibratsiakh vinta nulevogo shaga v vozdukh. Moskva, 1937. (TSAGI. Trudy, no. 332)

Title tr.: Vibration of a zero torque pitch propeller in the air.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress 1955.

KIRPICHNIKOVA, N.V.

At the Exhibition of Achievements of the National Economy of  
the U.S.S.R. Zashch. rast. ot vred. 1 bol. 9 no.8:55-57 '64.  
(MIRA 17:12)

KIRPICHNIKOVA, N.V.

At the new stations for plant protection. Zashch. rast. ot vred.  
1 bol. 7 no.3:16-17 Mr '62. (MIRA 15:11)  
(Plants, Protection of)



KIRPICHNIKOVA, N.V.

In cooperation with the Section of Agricultural Machinery. Zashch.  
rast. ot vred. i bol. 7 no.11:7-9 N '62. (MIRA 16:7)

88546

S/191/60/000/011/002/016  
B013/B054

15.8101

AUTHORS: Zernova, K. I., Kirpichnikova, V. V., Kotrelev, N. N.,  
Kuz'mina, S. Ya.

TITLE: Aging of Polyethylene and Its Mixtures With Polyisobutylene  
Under Atmospheric Conditions

PERIODICAL: Plasticheskiye massy, 1960, No. 11, pp. 4 - 8

TEXT: The present paper deals with the aging of polyethylene and its mixtures with polyisobutylene. Samples of ethylene and its mixtures with polyisobutylene at a ratio of 90:10 ((НОВ-90) - POV-90), 67:33 (POV-67), and 50:50 (POV-50) were subjected to fatigue tests in the open air under different climatic conditions in the central part of the USSR, on the coast of the Barents Sea and of the Black Sea, and in Central Asia. The test conditions are sufficiently characterized by the meteorological data of the regions concerned (Table 1). Mechanical characteristics, fatigue strength and elongation, were determined, and thermomechanical properties as well as structural changes were studied. In all materials of the group mentioned, X

Card 1/3

88546

Aging of Polyethylene and Its Mixtures With  
Polyisobutylene Under Atmospheric Conditions

S/191/60/000/011/002/016  
B013/B054

a noticeable deterioration of mechanical properties was observed during the tests: a decrease in strength and a considerable drop in relative elongation. A higher polyisobutylene content reduced the resistance of the polymeric mixture of atmospheric factors. It was found that higher temperatures accelerated the aging of the material, and that a continuous and intense exposure to sunlight greatly increased the degree of aging. Zhurkov's apparatus, modified by Kanavets (Ref. 2), was used to study the thermomechanical properties. The thermomechanical curves showed: 1) The range of elasticity was missing in all curves; 2) after two years of aging, the temperature of transition to the viscous state shifted slightly towards lower temperatures; 3) after aging, the curves for all materials showed a character different from that before aging. This indicates the formation of reactive groups due to chemical changes during aging. The strong decrease in elongation, starting in all polyethylene - polyisobutylene mixtures after 6 - 8 months already, indicates the predominance of the destruction process during aging. The structural changes during aging were studied by infrared spectroscopy, and the formation of aldehyde groups was ascertained. Like other hydrocarbons, polyethylene oxidizes

Card 2/3

88546

Aging of Polyethylene and Its Mixtures With  
Polyisobutylene Under Atmospheric Conditions

S/191/60/000/011/002/016  
B013/B054

during aging with formation of peroxides which decompose and give secondary decomposition products, aldehydes, carbon dioxide, etc. (Ref. 1). The tests showed that polyethylene and its mixtures with polyisobutylene cannot be used longer than 3-4 months in the mentioned characteristic areas under atmospheric conditions (in the open air) because of their low resistance to solar radiation. There are 10 figures, 1 table and 4 Soviet references.

X

Card 3/3

KIRPICHNIKOVA, Ye.

USSR/Morphology of Man and Animals - Vascular System.

8-5

Abs Jour : Ref Zhur - Biol., No 6, 26404

Author : Kirpichnikova, Ye.

Inst :

Title : Glycogen in the Myocardium of a Chick Embryo.

Orig Pub : Dokl. AN SSSR, 1956, 110, No 2, 285-288

Abstract : Glycogen (G) appears with the beginning of cardiac contractions (9-10 somite stage, 33-38 hrs. of incubation). During the first arrhythmic myocardial contractions, lumps of G are scattered irregularly in the cytoplasm near the nucleus or in the cellular anastomoses. The area of the future atrium does not contract and does not contain G. During the 2nd-3rd days of incubation the amount of G in the atrium increases rapidly. On the 4th day the lumps of G begin to orient themselves (as chains). All lumps of G in a 7-day embryo are localized as chains.

Card 1/2

15



... KIRPICHKOVA, Ye.

PA 29/49T64

USSR/Medicine - Histology  
Medicine - Flies

Feb 49

"Tissue Structure in the Range of One Systematic Category. Nucleus of Muscular Fiber of the Larvae of Diptera," Ye. Kirpichikova, Inst of Zool, Moscow State U. imeni M. V. Lomonosov, 4 pp

"Dok Ak Nauk SSSR" Vol LXIV, No 6

Takes issue with the opinion, commonly accepted by histologists, that the diversity of cells and tissues is very limited and, in any case, is much less than the diversity of construction in living organisms in Diptera class. Submitted by Acad Ye. N. Pavlov, 15 Dec 48.

29/49T64

BLUMENCHIKOVA, Ye. S.

"Changes in Tissue Fiber During the Development Process of Larva of  
Calliphora Erythrocephala Mg., W Dokl. Ak. Nauk SSSR, 65, No. 1, 1949.



KIRPICHNIROVA, YU. A.  
25267 KIRPICHNIROVA, YU. A. Skorostb Krovootrashcheniya U Khirurgichesakikh  
Bolnykh. Sbornik Trudov Gospit. Khiurg. Kliniki (Pervyy Mosk. Med. In-t)  
M. 1949. S. 348-54 Lukomskiv. P.E. Nagnoitelye Zabolevaniya Legkikh-Sk-  
25216

SO: Latopis' No. 33, 1949

KIRPICHNIKOVA, YE. S.

Muscle

In vivo observations of the development of striated muscles in the Chironomidae.  
Vest. Mosk. un. 5 no. 10, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. UNCLASSIFIED

ROSKIN, G.I.; KIRPICHNIKOVA, Ye.S.

Acellular forms and organisation of living substance; studies on structure and development of the muscular fibers in *Viviparus viviparus* L. Izv. Akad. nauk SSSR, Ser. Biol, no. 6:80-94 Nov-Dec 1952.

KIRFICHNIKOVA, E. S.

Praktikum po obshchei gistologii [Practicum in general histology]. Moskva,  
Sovetskaya nauka, 1953. 224 p.

SO: Monthly List of Russian Accessions, Vol. 7 No. 1 April 1954.

KIRPICHNIKOV, YE. S.

Ye. S. Kirpichnikov, and L. B. Levinson, Praktikum po obshchey gистологии (General Histological Practice), "Sovetskaya nauka" Press.

The booklet gives a description of preparations and processes which serve as practical studies for students. For comparative-histological study of materials, the booklet presents the histological study of materials, histological structures of representatives of various animal classes of the world. Much attention is devoted to the innervation (sensory and motor), both of the skin, and of inner organs.

The booklet is intended for state university students, and may also be used by biology students of other institutes.

SO: Sovetskaya knigi (Soviet Books), No. 186, 1953, Moscow, (U-3472)

**KIRPICHNIKOVA, Y.S.**

Annular elements in the muscle fibers of the heart of Anodonta.  
Dokl. AN SSSR 104 no.6:919-921 0 '55. (MLA 9:3)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.  
Predstavleno akademikom N.N. Anichkovym.  
(MUSCLE) (UNIONIDAN)

KIRPICHNIKOVA, Ye.S.

Morphological and histochemical differentiation of myocardial tissues in the chorio-allantois. Nauch.dokl.vys.shkoly;biol. nauki no.4:72-75 '58. (MIRA 11:12)

1. Rekomendovana kafedroy gistologii Moskovskogo gosudarstvennogo universiteta imeni M.V.Lomonosova.

(HEART--MUSCLE) (TRANSPLANTATION (PHYSIOLOGY))

(EMBRYOLOGY--BIRDS)

KIRPICHNIKOVA, Yelena Sergeyevna; LEVINSON, Leon Bentsianovich; LETKINA, M.I., red.; SIDOROVA, V.I., red.izd-va; TITOVA, L.L., tekhn.red.

[Course on the histology of some tissues and organs of the body]  
Praktikum po chastnoi gistologii. Pod obshchei red. L.B.Levinsona.  
Moskva, Gos.izd-vo "Vysshiaia shkola," 1960. 175 p.

(MIRA 13:12)

1. Kafedra gistologii Moskovskogo gosudarstvennogo universiteta  
im. M.V.Lomonosova.

(HISTOLOGY)



KIRPICHNIKOVA, Yelena Sergeyevna; LEVINSON, Leon Bentsianovich;  
CHERKASOVA, V.I., red. izd-va; GARINA, T.D., tekhn. red.

[Laboratory manual of general histology]Praktikum po obshchei  
gistologii. Pod obshchei red. L.B.Levinsona. Izd.2. Moskva,  
Vysshaya shkola. 1962. 235 p. (MIRA 16:2)

(HISTOLOGY--LABORATORY MANUALS)

KIRPICHNIKOVA, Yelena Sergeyevna; LEVINSON, Leon Bentsianovich;  
KAPYSHEVA, V.S., red.; GARINA, T.D., tekhn. red.

[Laboratory manual of sectional histology] Praktikum po  
chastnoi, gistologii. Izd.2. Pod obshchei red. L.B.Levinsona.  
Moskva, Vysshaya shkola, 1963. 171 p. (MIRA 16:8)  
(Histology--Laboratory manuals)

BUKHVALOV, I.B.; KIRPICHNIKOVA, Ye.S.; RYABOV, V.F.; SHCHERBAKOVA, E.G.

Different blood types in birds; based on materials collected in  
the steppe districts of the Virgin Territory. Vest. Mosk. un.  
Ser. 6; Biol., poohv. 19 no.3:51-55 My-Je '64. (MIRA 17:12)

1. Kafedra tsitologii i gistologii Moskovskogo universiteta.

KIRPICHNIKOVA, Ye.S.

Cytophysiological characteristics of the heart conduction system.  
Biol. eksp. biol. i med. 57 no.5:107-108 My '64.

(MIRA 18:2)

1. Kafedra fiziologii i gistologii (zav. - prof. G.I. Roskin  
[deceased]) Moskovskogo gosudarstvennogo universiteta imeni  
Lomonosova. Submitted May 25, 1963.

KIRPICHNIKOVA, Ye.S.; BRONSTEIN, M.I.; BUDAYEVA, I.A.

Histochemical evidence of the presence of glycogen and potassium  
in the conductive system of the heart. *Nauch. i kl.vys. sbory;*  
*biol.nauki* no.4:78-80 '65.

(MIRA 18:10)

1. Rekomendovana kafedroy tsitologii i fiziologii Moskovskogo  
gosudarstvennogo universiteta im. M.V.Lomonosova.

ROSKIN, G.I. (Moskva, I-92, Seliverstov per., 1, kv.32); KIRPICHNIKOVA, Ye.S.

Cytochemical analysis of the nature of the bond of ribonucleic acid with proteins in the cells of normal tissues and malignant tumors. Arkh. anat. gist. i embr. 40 no.5:27-33 Mr '61.

(MIRA 15:4)

1. Laboratoriya eksperimental'noy tsitologii i tsitokhimii rakovoy kletki i kafedra gistologii (zav. - prof. G.I.Roskin) Moskovskogo gosudarstvennogo universiteta. Adres Kirpichnikova: Moskva, Moskovskiy gosudarstvennyy universitet, kafedra gistologii.

(NUCLEIC ACIDS) (PROTEINS) (CANCER)

KIRPICOZEM, M.

KIRPICOZEM, M.; BACH, W. "Solar engines."

Problemy, Warsaw, Vol 9, No 2, 1953, p. 100

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

FEDORETS, G.I., gornyy inzh.; KIRPIKIN, V.V., gornyy inzh.

Experience and prospects for using metal supports at the  
40th Anniversary of the October Mine of the Nikopol'-  
Marganets Trust. Gor. zhur. no.9:25-28 S '64.

(MIRA 17:12)

1. Trest Nikopol'-Marganets.



KRYSHOVA, N.A.; VERIGINA, A.S.; KIRPIKINA, M.D.

Studies on the effect of the curariform preparation Mydeton  
in diseases of the nervous system with increased muscle tonus.  
Vop.psikh.i nerv. 8:378-382 '62. (MIRA 17:4)

KIRPIKOV, V. A.

Viscous Liquid and the Boundary Layer

Dissertation: "Heat Loss in Coil Pipes." Cand Tech Sci. Moscow Inst of Chemical Machine Building, Moscow, 1953. (Referativnyy Zhurnal -- Mekhanika, Moscow, Mar 54)

SO: SUM 213, 20 Sep 1954

KIRPIKOV, V.A., kand. tekhn. nauk; KONDUKOV, N.B., kand. tekhn. nauk;  
GUKHMAN, A.A., doktor fiziko-matem. nauk, prof., red.

[Fundamentals of the thermodynamics of flows] Osnovy termodinamiki  
potoka; uchebnoe posobie. Pod red. A.A.Gukhmana. Moskva, Mosk.  
in-t khim. mashinostroeniia, 1961. 119 p. (MIRA 14:11)  
(Thermodynamics) (Fluid dynamics)

KIRPIKOV, Vladimir Arkad'yevich; GUKHMAN, A.A., doktor fiz.-matem.  
nauk, prof., red.; FEDOROVA, T.P., red.; CHIZHEVSKIY,  
E.M., tekhn. red.

[Introduction to the thermodynamics of chemical and phase  
transitions] Vvedenie v termodinamiku khimicheskikh i fa-  
zovykh prevrashchenii. Moskva, Rosvuzizdat, 1963. 50 p.  
(MIRA 16:9)

(Chemical equilibrium)

KIRPIKOVA, T.

"Probability and information" by A.M.Yaglom and I.M.Yaglom.  
Reviewed by T. Kirpikova. Fiz mat spisanie BAN 4 no.4:318 '61.

KIRPIKOVA, T.

---

"Correct methods of language study (The so-called 'mathematical linguistics')" by O.S. Akhmanova, I.A. Melchuk, Ye.V. Paducheva, and R.M. Frumkina. Reviewed by T. Kirpikova. Fiz mat spisanie BAN 5 no.2:158 '62.

PENEV, B.; OBRATENOV, A.; SENDOV, B.; KIRPIKOVA, T.; JOUKANOV, T.  
[Dzhukanov, T.]

Frequencies of letters in written Bulgarian. Doklady BAN 15  
no.3:243-244 '62.

1. Submitted by Corresponding Member L. Ilieff [Iliev, L.].

KIRPISHCHIKOVA, T.P.; YASTEMBOVA, L.P.

Clinical studies on a new sulfonamide diuretic diacarb. Terap.arkh.  
31 no.11:62-65 N '59. (MIRA 13:3)

1. Iz fakul'tetskoy terapevticheskoy kliniki (sveduyushchiy - prof.  
B.P. Kushelevskiy) Sverdlovskogo meditsinskogo instituta.  
(ACETAZOLAMIDN ther.)



KIRPONOS, Ye.M., starshiy nauchnyy sotrudnik; NIKONOVA, T.K., starshiy  
nauchnyy sotrudnik; MEMIROV, N.G., polkovnik, red.

[Hero of the Soviet Union Ruben Ruis Ibarruri] Gerol Sovetskogo  
Soiuza Ruben Ruis Ibarruri. Moskva, 1960. 31 p.

(MIRA 14:2)

1. Moscow. Tsentral'nyy musey Sovetskoy Armii. 2. Tsentral'nyy  
musey Sovetskoy Armii (for Kirponos, Nikonova).  
(Ibarruri, Ruben Ruis)

ARSENIN, N.D.; BUDKOVSKIY, N.G.; BOLOTIN, A.A.; BONARTSEVA, N.N.;  
BOGDANOVA, M.V.; COLOVENKO, I.P.; IL'BITENKO, K.I.;  
KIRPONOS, Ye.M.; KARAPETYAN, K.G.; KIRSANOVA, I.A.;  
KUZNETSOV, A.L.; KORESHNIKOVA, N.F.; KORZHENEVSKAYA, T.I.;  
NEMIROV, N.G.; NIKONOVA, T.K.; NAZAROV, V.N.; PISAREVA, I.A.;  
POPOV, S.A.; PRONINA, N.A.; PAKHMAN, M.Ye.; REYPOLSKIY, S.N.;  
ROGACHEV, Yu.N.; SOSNINA, V.D.; STARSHINOV, B.M.; KHUDYAKOV,  
B.Ya.; SHELEKASOV, V.I.; PARKOV, V.P., podpolkovnik, red.;  
MURAV'YEV, A.I., polkovnik, red.; CHAPAYEVA, R.I., tekhn. red.

[Relics of military glory] Relikvii boevoi slavy. Moskva,  
Voenizdat, 1962. 166 p. (MIRA 15:8)

1. Nauchnyye sotrudniki TSentral'nogo muzeya Sovetskoy Armii  
(for all except Murav'yev, Chapayeva).  
(Military museums)

KIRPOTA, Ya.

Mechanized unloading of coal in pillar splitting. Mast. ugl. 7 no.1:  
23 Ja '58.

(Coal-handling machinery)

(MIRA 11:2)

KIRPOTA, Ya.A., gornyy inzh.

Wider introduction of gas removal in mines of the Donets Basin.  
Ugol' 38 no.11:56-57 N '63. (MIRA 17:9)

1. Tsentral'nyy komitet professional'nogo soyuza rabochikh  
ugol'noy promyshlennosti.

KIRPOTA, Ya.A., gornyy inzh.; SHUKHACHEV, A.P., gornyy inzh. (Karaganda);  
AVAKYAN, A.A., inzh.

Readers' response to the article by M.A.Magoichenkov, and V.N.  
Diadyk "Record of blasting operations in coal mines"; "Ugol',"  
1962, No.12. Ugol' 39 no.1:64-65 Ja 64. (MIRA 17:3)

1. Tsentral'nyy komitet professional'nogo soyuza rabochikh ugol'noy  
promyshlennosti (for Kirpota). 2. Dngiprouglemash (for Avakyan).

KIRPOTINA, N.V.

Linear operators in the space of vector functions. Uch. zap. MOPI  
39 no.3:55-60 '56. (MLBA 10:4)  
(Functional analysis)

EXCERPTA MEDICA Sec 4 Vol 12/5 Med. Micro. May 59

1284. USE OF LYSATES OF SAPROPHYTIC MICROORGANISMS IN NUTRIENT MEDIA FOR ACCELERATION OF BACTERIOLOGICAL DIAGNOSIS OF TYPHOID FEVER (Russian text) - Kirpuzidi K. S. and Drozhevskina M. S. - ZH. MIKROB. EPID. I IMMUNOBOL. 1957/6 (92-97) Tables 5

As a growth-promoting factor for *S. typhi* a lysate of *Sarcina lutea* was used, prepared by the following method. Fresh chicken albumin was added to a suspension of *Sarcina lutea*; after 1-2 days' incubation total lysis was observed. To this lysate 0.2% of formaldehyde was added. The optimum growth-promoting concentration of the lysate was 3%.

Chakhava - Moscow

137-58-6-11329

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 10 (USSR)

AUTHORS: Okunev, A.I., Kirr, L.D., Oshman, V.A., Ryabov, Yu.F.

TITLE: The Distribution of Rare and Disseminated Elements in the Milling of Ural Copper-and-zinc Ores by Separation of Independent Concentrates (Raspredeleniye redkikh i rasseyannykh elementov pri obogashchenii ural'skikh medno-tsinkovykh rud s vydeleniym samostoyatel'nykh kontsentratov)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 23, pp 12-13

ABSTRACT: The Unipromed' Institute has made a study of the distribution of rare and disseminated elements among the various milling products at sections of the Krasnoural'sk and Karabash Ore Milling plants. The results of the analyses show that the Cd, In, and Ge contents of the Zn concentrate exceed many times over the contents thereof in the starting specimen. However, the total extraction thereof in the Zn concentrate is comparatively low, and it is 67-85% in the pyrite concentrate and tailings. The concentration of rare elements in the Cu concentrate is less, owing to the separation of Zn concentrate, than is the case in flotation involving a combined Cu-Zn concentrate.

Card 1/1

1. Copper ores--Processing 2. Zinc ores--Processing A.Sh.  
3. Rare earth elements--Availability



137-58-6-11954

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 110 (USSR)

AUTHORS: Ryabov, Yu.F., Okunev, A.I., Kirr, L.D., Oshman, V.A.

TITLE: Distribution of Certain Rare and Disseminated Elements in the Treatment Products of Copper Ores and Concentrates (Raspre-deleniye nekotorykh redkikh i rasseyannykh elementov v produktakh pererabotki mednykh rud i kontsentratov)

PERIODICAL: Byul. tsvetn. metallurgii, 1957, Nr 22, pp 24-27

ABSTRACT: Tables of the distribution of rare and disseminated elements at various stages of conversion at the Karabash and Kras-noural'sk copper smelter are presented. Under conditions of pyrometallurgical treatment, In, Ge, and Tl chiefly go into the slags; Se and Te go into the blister Cu and the dust; and Cd into the dust.

G.S.

1. Copper ores--Processing    2. Rare earth elements--Determination

Card 1/1

GALIMOV, M.D.; KIRR, L.D.; STEPIN, B.V.; ZAPONOVA, K.F.

Behavior of arsenic and rare elements during the oxidizing  
roasting and sulfatization of dusts and sublimates. TSvet.  
met. 34 no.12:61-67 D '61. (MIRA 14:12)  
(Copper industry--By-products)  
(Fly ash)

BUKETOV, Ye.A.; BURDAKOV, Yu.D.; KIRR, L.D.; KLYACHEVA, Z.S.; MALYSHEV, V.P.

Shaft furnace calcination of electrolytic copper slime. Tsvet. met.  
38 no.4:28-30 Ap '65. (MIRA 18:5)

KAAR, Kh. [Kaar, H.]; KIRRET, O.; SHVINDLERMAN, G.

Studying the activity of catalysts on the basis of bis-cyclopentadiene compounds of titanium in the polymerization of ethylene. Izv. AN Est. SSR. Ser. fiz.-mat. i tekhn. nauk 12 no. 3:295-300 '63. (MIRA 16:11)

1. Academy of Sciences of the Estonian S.S.R., Institute of Chemistry. 2. Corresponding member of the Academy of Sciences of the Estonian S.S. R. (for Kirret).

KYULLIK, E. [Kullik, E.]; KIRRET, O.

Quantitative analysis of a mixture of wool and polyester fiber  
by pyrolytic gas chromatography. Izv. AN Est. SSR. Ser. fiz.-  
mat. i tekhn. nauk 14 no.1:133-140 '65. (MIRA 18:11)

1. Institut khimii AN Estonskoy SSR.

ACCESSION NR: AP4014226

S/0023/63/000/004/0414/0419

AUTHORS: Kaar, H. (Kaar, Kh.); Kirret, O. (Corresponding member); Schwindlerman, G. (Shvindlerman, G.)

TITLE: A study of the activity of catalytic systems based on bis-cyclopentadienyl titanium compound in the polymerization of ethylene. 2. A study of the activity of the catalytic complex  $(C_5H_5)_2TiCl_2 - (iso-C_4H_9)_2AlCl$

SOURCE: AN EstSSR. Izv. Ser. Fiz.-matem. i tekhn. nauk, no. 4, 1963, 414-419

TOPIC TAGS: polymerization, ethylene polymerization, catalyst, alicyclic compounds, titanium-aluminum catalyst, bis-cyclopentadienyl titanium compound, di-iso-butyl aluminum chloride, hydrochloric acid, alkylaluminum dichloride, polar titanium-aluminum bond

ABSTRACT: The effect of HCl and alkylaluminum chlorides on the performance of the catalytic complex  $(C_5H_5)_2TiCl_2 - (iso-C_4H_9)_2AlCl$  in the polymerization of ethylene was investigated. The activity of the catalytic system was plotted on graphs and recorded as the yield of the polymer per 1 Mol of bis-cyclopentadienyl (BCPD) within a time period of 1.5 hours. Preliminary experiments with the polymerization

Card 1/2

ACCESSION NR: AP4014226

of ethylene in toluene by the Ti-Al complex revealed a maximum activity within a 20-40C temperature range. It was found that when either HCl or  $\text{RAlCl}_2$  were introduced into the reactor previous to the formation of the catalytic Ti-Al complex, the polymerization of ethylene did not take place at all, while the green inactive Ti-Al compound was still formed. Since HCl and  $\text{RAlCl}_2$  were effective when time was allowed for the formation of an active Ti-Al complex, it is interpreted by the authors as an indication of a certain time element required for the formation of C-Ti bonds. It is assumed that the incorporation of 0.5-1.0 millimole of HCl per 1 millimole of  $\text{R}_2\text{AlCl}$  results primarily in the formation of  $\text{RAlCl}_2$ . The obtained polymers were of linear structure and had a melting point of 133-137C. Infrared spectral analysis revealed that when the catalytic system was stimulated by the addition of  $(\text{C}_6\text{H}_5)_3\text{CCl}$  the obtained polyethylene contained a large amount of side branches and of double bonds. Orig. art. has: 3 tables and 4 charts.

ASSOCIATION: Institut khimii Akademii nauk Estonskoy SSR (Institute of Chemistry, Academy of Sciences Estonian SSR)

SUBMITTED: 20Jun63

DATE ACQ: 07Feb64

ENCL: 00

SUB CODE: CH

NO REF SOV: 004

OTHER: 006

Card 2/2

EYZEN, O. [Eisen, O.], kand. tekhn. nauk; ARUMEYEL, E. [Arumeeel, E.];  
EYZEN, Yu. [Eisen, J.]; RAUDE, Kh. [Raude, H.]; PYDER, I.  
[Poder, I.]; KIRRET, O.; LAKHE, L. [Lahe, L.]; VYANIKVER,  
M. [Vanikver, M.]

Determining the individual composition of the middle  
fractions of oil-shale tar by the gas chromatographic  
and the spectrum analysis methods. Izv. AN Est. SSR. Ser.  
fiz.-mat. 1 tekhn. nauk 13 no.2:135-142 '64.

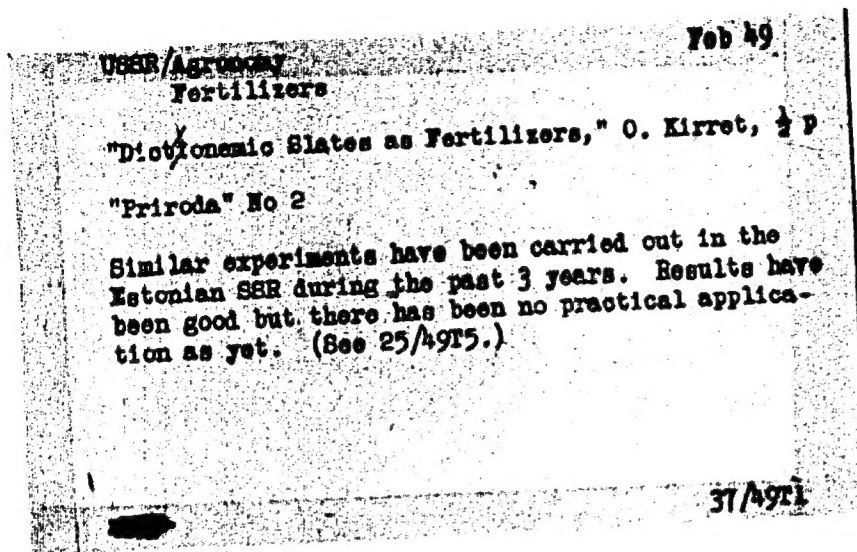
(MIRA 17:9)

1. Institut khimii AN Estonskoy SSSR. 2. Chlen-korrespondent  
AN Estonskoy SSR (for Kirret).



KIRRET, O. G.

PA 37/49T1



KIRKET, O.G., EYEN, YU.I., DILAKTUSHIY, N.L.

"Thermal Analysis of Combustible Shale-Kukersite," Izv. AN Est SSR, 2, No 1, 103-107, 1953

The authors describe the procedure and results of tests on four samples of shales. The differential curves constructed reflect the liberation of water, destruction and maximum liberation of liquid products, liberation of water of constitution from aluminosilicates, and decomposition of carbonates. (RZhGeol, No 1, 1955)

SO: Sum. No. 536, 10 Jun 55

KIRRET, O.G.

23-3-3/8

SUBJECT: USSR/Fuel, Oil Shale

AUTHORS: Valdek, R.G., Kirret, O.G., Lutskovskaya, N.L., Polikarpov N.K.,  
Candidates of Technical Sciences

TITLE: On Some Physical and Physico-Chemical Properties of Estonian  
Oil Shale (Kukersite) and its Coke and Semi-Coke Products (O  
nekotorykh fizicheskikh i fiziko-khimicheskikh svoystvakh  
slantse-kukersita, yego koksa i polukoksa)

PERIODICAL: Izvestiya Akademii Nauk Estonskoy SSR, Seriya Tekhnicheskikh i  
Fiziko-Khimicheskikh Nauk, 1957, # 3, pp 229-244 (USSR)

ABSTRACT: Research has been carried out to investigate changes in the  
properties of oil shale and its coking products, in dependence  
on the composition of crude oil shale and on its thermal treat-  
ment conditions.  
Various samples were investigated: shale-coke obtained from  
the Kohtla-Jarve Plant chamber-ovens, semi-coke of Kivioli  
mines, as well as cokes and semi-cokes obtained by their retort-  
ing in a laboratory installation at 520°, 700°, and 900° C.  
The results of the research prove that heat conductivity of oil  
shale increases with the increase of its apparent specific gra-  
vity and decreases with the increase of its "kerogen"-content.

Card 1/3

23-3-3/8

**TITLE:**

On Some Physical and Physico-Chemical Properties of Estonian Oil Shale (Kukersite) and its Coke and Semi-Coke Products (O nekotorykh fizicheskikh i fiziko-khimicheskikh svoystvakh slantsa-kukersita, yego koksa i polukoksa)

By conversion of oil shale into semi-coke, its real specific gravity and porosity increase, and continue to increase with the rise of the coking temperature up to 900°C.

The apparent specific gravity and heat conductivity decrease while oil shale is converted into semi-coke. The reduction of semi-coke heat conductivity is due to the increase of its porosity in comparison with oil shale.

An analysis of shale-coke has shown that changes on the composition of coke organic matter depend mainly on the coking temperature and only to a very small extent on the chemical composition of the oil shale.

Thermographic characteristics of oil shale and coke samples show the dependence of thermal effects on their composition.

An analysis of sieve fractions of crushed samples from Kohtla-Yarve chamber-oven coke and Kivioli tunnel-oven semi-coke has shown that the content of organic substances is higher in the finer fractions and that calorific values of the latter are

Card 2/3